

Docket No. 262905US0PCT

MAIL STOP 101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Pascale GAILLARD, et al.

SERIAL NO: 10/516,330 ✓

GAU:

FILED: December 14, 2004

EXAMINER:

FOR: AZOLE METHYLIDENE CYANIDE DERIVATIVES AND THEIR USE AS PROTEIN KINASE MODULATORS

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.

- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.

- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).


CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.

Norman F. Oblon

Registration No. 24,618

Customer Number

22850

Tel. (703) 413-3000
Fax. (703) 413-2220
(OSMMN 05/03)

Surinder Sachar

Registration No. 34,423

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 262905US0PCT		SERIAL NO. 10/516,330	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Pascale GAILLARD, et al.			
				FILING DATE December 14, 2004		GROUP	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
					YES	NO	
↓	/VB/	AA	01/47920	07/05/01	WO		NO
		AB	00/35921	06/22/00	WO		NO
		AC	00/35909	06/22/00	WO		NO
		AD	00/35906	06/22/00	WO		NO
		AE	00/64872	11/02/00	WO		NO
		AF	1 110 957	06/27/01	EP		NO
		AG	02/20495	03/14/02	WO		NO
		AH	02/10141	02/07/02	WO		NO
		AI	02/22608	03/21/02	WO		NO
	/VB/	AJ	0 169 502	01/29/86	EP		NO
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
↓	/VB/	AK	XIE, Xiaoling et al. "Crystal structure of JNK3: a kinase implicated in neuronal apoptosis", Structure, vol. 6, no. 8, pages 983-991 1998				
		AL	KUMAGAE, Yoshihiro et al. "Human c-Jun N-terminal kinase expression and activation in the nervous system", Molecular Brain Research, vol. 67, no. 1, pages 10-17 1999				
		AM	YANG, Derek D. et al. "Absence of excitotoxicity-induced apoptosis in the hippocampus of mice lacking the Jnk3 gene", Nature, vol. 389, pages 865-870 1997				
		AN	YANG, Derek D. et al. "Differentiation of CD4+ T Cells to Th1 Cells Requires MAP Kinase JNK2", Immunity, vol. 9, pages 575-585 1999				
		AO	SABAPATHY, Kanaga et al. "JNK2 is required for efficient T-cell activation and apoptosis but not for normal lymphocyte development", Current Biology, vol. 9, no. 3, pages 116-125 1999				
		AP	WOODGETT, James R. "A common denominator linking glycogen metabolism, nuclear oncogenes and development", TIBS, vol. 16, pages 177-181 1991				
		AQ	SAITO, Yuji et al. "The mechanism by which epidermal growth factor inhibits glycogen synthase kinase 3 in A431 cells", Biochem. J., vol. 303, pages 27-31 1994				
		AR	WELSH, Gavin I. et al. "Glycogen synthase kinase-3 is rapidly inactivated in response to insulin and phosphorylates eukaryotic initiation factor eIF-2B", Biochem. J., vol. 294, pages 625-629 1993				
		AS	CROSS, Darren A.E. et al. "The inhibition of glycogen synthase kinase-3 by insulin or insulin-like growth factor 1 in the rat skeletal muscle cell line L6 is blocked by wortmannin, but not by rapamycin: evidence that wortmannin blocks activation of the mitogen-activated protein kinase pathway in L6 cells between Ras and Raf", Biochem. J., vol. 303, pages 21-26 1994				
		AT	GRIMES, C.A. et al., Progress in Neurobiology, vol. 65, pages 393-426 2001				
	AU	KLEIN, Peter S. et al. "A molecular mechanism for the effect of lithium on development", Proc. Natl. Acad. Sci., vol. 93, pages 8455-8459 1996					
/VB/	AV	FLUECKIGER-ISLER, Rosina E. et al. "Stimulation of rat liver glycogen synthesis by the adenosine kinase inhibitor 5-iodotubercidin", Biochem. J., vol. 292, pages 85-91 1993					
Examiner /Venkataraman Balasubramanian/						Date Considered 01/05/2008	
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 262905US0PCT		SERIAL NO. 10/516,330			
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Pascale GAILLARD, et al.					
				FILING DATE December 14, 2004		GROUP			
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)									
↓	/VB/	AW	MASSILLON, Duna et al. "Identification of the glycogenic compound 5-iodotubercidin as a general protein kinase inhibitor", Biochem. J., vol. 299, pages 123-128 1994						
		AX	LOVESTONE, Simon et al. "Alzheimer's disease-like phosphorylation of the microtubule-associated protein tau by glycogen synthase kinase-3 in transfected mammalian cells", Current Biology, vol. 4, no. 12, pages 1077-1086 1994						
		AY	BROWNLEES, Janet et al. "Tau phosphorylation in transgenic mice expressing glycogen synthase kinase-3beta transgenes", NeuroReport, vol. 8, pages 3251-3255 1997						
		AZ	STAMBOLIC, Vuk et al. "Lithium inhibits glycogen synthase kinase-3 activity and mimics Wingless signalling in intact cells", Current Biology, vol. 6, no. 12, pages 1664-1668 1996						
		AAA	CHEN, Guang et al. "The Mood-Stabilizing Agent Valproate Inhibits the Activity of Glycogen Synthase Kinase-3", Journal of Neurochemistry, vol. 72, pages 1327-1330 1999						
		AAB	TAKASHIMA, Akihiko et al. "Presenilin 1 associates with glycogen synthase kinase-3beta and its substrate tau", Proc. Natl. Acad. Sci., vol. 95, pages 9637-9641 1998						
		AAC	ZHANG, Zhuohua et al. "Destabilization of beta-catenin by mutations in presenilin-1 potentiates neuronal apoptosis", Nature, vol. 395, pages 698-702 1998						
		AAD	TAKASHIMA, Akihiko et al. "Tau protein kinase I is essential for amyloid beta-protein-induced neurotoxicity", Proc. Natl. Acad. Sci., vol. 90, pages 7789-7793 1993						
		AAE	PEI, Jin-Jing et al. "Distribution, Levels, and Activity of Glycogen Synthase Kinase-3 in the Alzheimer Disease Brain", Journal of Neuropathology and Experimental Neurology, vol. 56, no. 1, pages 70-78 1997						
		AAF	NONAKA, Shigeyuki et al. "Chronic lithium treatment robustly protects neurons in the central nervous system against excitotoxicity by inhibiting N-methyl-D-aspartate receptor-mediated calcium influx", Proc. Natl. Acad. Sci., vol. 95, pages 2642-2647 1998						
		AAG	THOMAS, Robert Joseph. "Excitatory Amino Acids in Health and Disease", JAGS, vol. 43, pages 1279-1289 1995						
		AAH	SASAKI, Chihoko et al. "Different expression of glycogen synthase kinase-3beta between young and old rat brains after transient middle cerebral artery occlusion", Neurological Research, vol. 23, pages 588-592 2001						
		AAI	CROSS, Darren A.E. "Selective small-molecule inhibitors of glycogen synthase kinase-3 activity protect primary neurones from death", Journal of Neurochemistry, vol. 77, pages 94-102 2001						
		AAJ	ALI, Adnan et al. "Glycogen Synthase Kinase-3: Properties, Functions, and Regulation", American Chemical Society, pages A-1, 2000						
		AAK	NAERUM, Lars et al. "Scaffold Hopping and Optimization towards Libraries of Glycogen Synthase Kinase-3 Inhibitors", Bioorganic & Medicinal Chemistry Letters, vol. 12, pages 1525-1528 2002						
		AAL	CHABAKA, Laila M. et al. "Facile Synthesis of 2-Furyl-, 2-Pyrrolyl-, 2-Imidazolyl- and Pyrrolo-Azoles from 2-Substituted Methylazoles", Polish J. Chem., vol. 68, pages 1317-1325 1994						
		/VB/	AAM	ABDELHAMID, Abdou O. et al. "Reactions with Hydrazonoyl Halides. Part 10. Formation of Thiohydrazide, Hydrazonoyl Sulfide and Arylazothiazole Derivatives", J. Chem. Research (S), pages 144-145 1995					
	Examiner /Venkataraman Balasubramanian/						Date Considered 01/05/2008		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.									

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 262905US0PCT		SERIAL NO. 10/516,330		
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Pascale GAILLARD, et al.				
				FILING DATE December 14, 2004		GROUP		
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)								
↓	/VB/	AAN	BROWN, Michael D. et al. "A New General Synthesis of 2-(N-Mono- and N-Di-substituted Amino)thiazoles", J. Chem. Soc. 1985					
		AAO	DAWOOD, Kamal M. et al. "Polyheterocyclic ring systems with bridgehead nitrogen atoms: a facile route to some novel Azolo-1,2,4-triazine derivatives", J. Chem. Research (S), pages 206-207 2000					
		AAP	GAUDRY, M. et al. "Enolisation des Cetonnes Dissymetriques-III", Tetrahedron, vol. 25, pages 5611-5615, with English abstract 1970					
		AAQ	"Exploratory Library (Catalog)", Ambinter, Chemical Abstracts Service, Database accession no. 2002:2290627, XP002218003 2002					
		AAR	"Exploratory Library (Catalog)", Ambinter, Chemical Abstracts Service, Database accession no. 2002:2290629, XP002218005 2002					
		AAS	"Exploratory Library (Catalog)", Ambinter, Chemical Abstracts Service, Database accession no. 2002:2290615, XP002218009 2002					
		AAT	BLYUMIN, E.V. et al. "Reaction of 2-hetarylacetonitriles with ethyl 2-alkylsulfanyl-4-chloro-5-pyrimidinecarboxylates. Synthesis of new condensed pyrimidines", Tetrahedron, vol. 58, no. 28, pages 5733-5740, XP004369422 2002					
		AAU	"Exploratory Library (Catalog)", Ambinter, Chemical Abstracts Service, Database accession no. 2002:2832472, XP002218001 2002					
		AAV	"Exploratory Library (Catalog)", Ambinter, Chemical Abstracts Service, Database accession no. 2002:2290610, XP002218002 2002					
		AAW	"Exploratory Library (Catalog)", Ambinter, Chemical Abstracts Service, Database accession no. 2002:2833110, XP002218004 2002					
		AAX	"Exploratory Library (Catalog)", Ambinter, Chemical Abstracts Service, Database accession no. 2002:2290614, XP002218006 2002					
		AAZ	"Exploratory Library (Catalog)", Ambinter, Chemical Abstracts Service, Database accession no. 2001:2009866, XP002218007 2002					
		AAZ	"Exploratory Library (Catalog)", Ambinter, Chemical Abstracts Service, Database accession no. 2002:2290631, XP002218008 2002					
		BAA	"Exploratory Library (Catalog)", Ambinter, Chemical Abstracts Service, Database accession no. 2002:2290611, XP002218010 2002					
	/VB/	BAB	FISCHER, E. et al. "Cyclisierungsreaktionen von 1-[2-Amino-1-cyan-2-thio-äthyl]ene-pyridiniumbetainen", Journal f. prakt. Chemie, vol. 321, no. 3, pages 429-436, XP008009779, with English abstract 1979					
	BAC							
	BAD							
Examiner /Venkataraman Balasubramanian/						Date Considered 01/05/2008		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

STATEMENT OF RELEVANCY

- 1) References AA, AAO-AAT have been cited in the International Search Report. Copies of these references are being submitted herewith only when not automatically provided by the International Searching Authority.
- 2) References AAU-BAB have been cited in the corresponding Partial European Search Report. A copy of these references is being submitted herewith.
- 3) References AB-AAP are discussed in the specification. A copy of these references is being submitted here with.
- 4) References _____ are additional prior art known to Applicant. A copy of these references is being submitted herewith.